



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/746,496		12/21/2000	John K. Walton	EMC2-087PUS	EMC2-087PUS 9763		
22494	7590	07/03/2003			/ .		
	ROWLEY	& MOFFORD, L	EXAMIŅÉR /				
SUITE 101 275 TURNPIKE STREET CANTON, MA 02021-2310				CHUNG, PHUNG M			
CANTON,	MA 0202	.1-2310		ART UNIT	PAPER NUMBER		
				2133			
				DATE MAILED: 07/03/2003	DATE MAILED: 07/03/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

			•	<b>S</b> /
	Application	No.	Applicant(s)	0
	09/746,496		WALTON ET AL.	
Office Action Summary	Examiner		Art Unit	
	Phung M. Cl	nung	2133	
The MAILING DATE of this communi Period for Reply	ication appears on the c	over sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNION - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this common - If the period for reply specified above, the maximum state - Failure to reply within the set or extended period for reply - Any reply received by the Office later than three months at earned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event sunication. 0) days, a reply within the statuto stutory period will apply and will e will, by statute, cause the applica	, however, may a reply be tim ry minimum of thirty (30) day: xpire SIX (6) MONTHS from tition to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communic D (35 U.S.C. § 133).	ation.
Status  1) Responsive to communication(a) file	ad an			
<ul><li>1) Responsive to communication(s) file</li><li>2a) This action is <b>FINAL</b>.</li></ul>		final		
<u>-                                    </u>	2b) This action is no			., .
<ol> <li>Since this application is in condition closed in accordance with the pract</li> <li>Disposition of Claims</li> </ol>	itor allowance except tice under <i>Ex parte Qua</i>	or formal matters, pr lyle, 1935 C.D. 11, 4	osecution as to the mer 53 O.G. 213.	its is
4)⊠ Claim(s) <u>1-5</u> is/are pending in the ap	oplication.			
4a) Of the above claim(s) is/ar	re withdrawn from cons	ideration.		
5)⊠ Claim(s) <u>3-5</u> is/are allowed.				
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.				
7) Claim(s) is/are objected to.			·	
8) Claim(s) are subject to restric	tion and/or election req	uirement.		
Application Papers			-	
9) The specification is objected to by the				
10) The drawing(s) filed on is/are:				
Applicant may not request that any objection			, ,	
11) The proposed drawing correction filed			ved by the Examiner.	
If approved, corrected drawings are red		e action.		
12) The oath or declaration is objected to	by the Examiner.			
Priority under 35 U.S.C. §§ 119 and 120			•	
13) Acknowledgment is made of a claim	for foreign priority unde	er 35 U.S.C. § 119(a	)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:				
Certified copies of the priority of the p				•
2. Certified copies of the priority			·	
<ul><li>3. Copies of the certified copies of application from the Internation</li><li>* See the attached detailed Office action</li></ul>	ational Bureau (PCT R	ule 17.2(a)).		
14) ☐ Acknowledgment is made of a claim fo				cation).
a) ☐ The translation of the foreign lan 15)☐ Acknowledgment is made of a claim fo	guage provisional appl	ication has been rec	eived.	ŕ
Attachment(s)	Table priority diffe	2. 2. 2.0.0. 33 120		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (P' 3) Information Disclosure Statement(s) (PTO-1449) Pa	TO-948) 5		(PTO-413) Paper No(s) Patent Application (PTO-152)	<u>_</u> .

Application/Control Number: 09/746,496

Art Unit: 2133

1. The Abstract of the invention is objected to beause it is too long.

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns,"

"The disclosure defined by this invention," "The disclosure describes," etc.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bock et al (5,948,119) in view of Kim et al (6,253,346).

Bock et al disclose the invention substantally as claimed, comprising the steps of: checking a CRC of data words (packet of digital data);

Application/Control Number: 09/746,496

Page 3

Art Unit: 2133

corrupting (discarding) the packet in response to the CRC error. Bock et al do not disclose a delay element for delaying the data from passing to an output. (See col. 1, lines 57-65). However, Kim et al disclose a CRC logic portion for delaying data output. (See col. 1, lines 20-22 and col. 3, lines 51-55). Therefore, it would have been obvious to a person of ordinary skill in the art, at the time the invention was made, to incorporate the teaching of the delaying of the data output of Kim et al into the invention of Bock et al to improve operation speed of the overall system.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bock et al (5,948,119) in view of Kim et al (6,253,346) as applied to claim 1 above, and further in view of Ive (4,400,810).

The teaching of Bock et al and Kim et al have been discussed above. They did not disclose that the corrupting comprising corrupting a parity of data words when error is detected. However, Eve discloses the step of corrupting (concealing) a parity byte of data words when error is detected. (See col.9, line 58 to col. 10, line 3). Therefore, it would have been obvious to a person of ordinary skill in the art, at the time the invention, to incorporate the teaching of corrupting (concealing) parity byte of data words when error is detected into the invention of Bock et al and Kim et al so that burst errors can be eliminated.

- 5. Claims 3-5 are allowable.
- 6. Reasons for allowance:

Application/Control Number: 09/746,496

Art Unit: 2133

Claims 3-5 are allowable over the art of record, this is because the art of record does not

Page 4

disclose the invention as recited in claims 3 and 4 and including a selector having a first input

thereof fed by parity bits and a second input thereof fed by the complement of such parity bits,

such selector coupling the first input thereof to an output of such selector when the determined

CRC is the same as the CRC fed by the CRC source and for coupling the second input thereof to

the output when the determined CRC is different from the CRC fed by the CRC source, the

output of the selector providing an appended parity bit for the data bytes after such data bytes

pass through a delay.

7. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Phung My Chung whose telephone number is 703-305-9686. The examiner

can normally be reached on Monday-Friday from 9:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Decady, Albert can be reached on (703) 305-9595. The fax phone number for the

organization where this application or proceeding is assigned is 703-746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-305-9000.

Phung Mix Chung

Primary Patent Examiner

Technology Center 2100